Kreativ Kuring & Bleaching Center

USER MANUAL ADDENDUM

CHANGES IN THE OPERATION OF THE UNIT HAVE BEEN MADE!!!

PLEASE REVIEW THIS BEFORE OPERATING YOUR KURING LIGHT

Reason for the Addendum

In an effort to maintain our high product quality, Kreativ has recently implemented new software in its Kuring and Bleaching Center. This software incorporates a new calibration mode, significantly improves lamp performance, and replaces the “ramp bleach” mode with the new “comfort bleach” mode.

Also, the mounting bracket for the lamp has changed, and thus there are new instructions for removing and replacing the lamp, should it be needed. Please familiarize yourself with these instructions before attempting this procedure.

Operating Instructions

Operation

Before each use, check the Curing Tip surface to ensure it is clean and without damage or sharp edges. Verify proper light output using the “Verify On Demand” feature. Light output should be in accordance with the values listed on page 2-4 of this addendum.

Place the Curing Tip within 4 mm (0.16”) of the restorative material, sealant, primer, bonding agent, or bleach. Be sure to follow the specific instructions included with the material to be photo-activated.

Handpiece Selection

Included with your Kuring Light are two handpieces; One (1) with a 6.4 mm Curing Tip and One (1) with an 8.0 mm Curing Tip.

For most procedures the 8.0 mm handpiece is recommended. For situations where a smaller light pattern is desired, such as on children’s teeth, the 6.4 mm handpiece is ideal.

Bleaching Mode

Consult the manufacturer's directions for the appropriate activation time. The Kreativ Kuring Light has wavelength limiting filters designed specifically for photo-thermal accelerators, such as Kreativ's PowerGel™ photo-specific bleach.

The "RAMP BLEACH" mode has been replaced with the new "COMFORT BLEACH" mode. ***Comfort Bleach Mode is selected when the Ramp Bleach LED on the front panel is lit.***

Depress the footswitch to initiate the cycle. The unit will beep at the beginning and every 60 seconds thereafter. The exposure time, in minutes and seconds, is displayed.

Normal Bleach Mode

The Kreativ Kuring Light generally produces the same results as a conventional visible light source in one-fourth (25%) of the time.

Boost Bleach Mode

This mode increases the light output power (i.e., photo-thermal energy) approximately 20% above the Normal Bleach Mode. Use this mode when extra power or faster activation is desired.

Comfort Bleach Mode

This mode provides a reduced lamp output from the Normal Bleach Mode. This creates a slower photo-thermal activation of the bleach and may increase the comfort of patients with certain types of sensitivity.

Lamp Calibration

Calibration: When you first receive the unit, it is recommended that you perform a lamp calibration. CALIBRATION CAN BE COMPLETED ANY TIME LIGHT OUTPUT IS NOT AT THE MINIMUM LEVELS PER PAGE 2-4 OF THIS ADDENDUM.

This is a new feature. Repeated calibration will *not* affect lamp life.

To perform a calibration:

1. Clean the Liquid Light Guide, Handpiece and the Radiometer Target before attempting to calibrate. DO NOT use steri-shield sheaths when calibrating.
2. Put on safety goggles.
3. Select mode to be used.
4. Depress the foot pedal and operate the unit for a period of 1 minute.
5. Release the foot pedal.
6. From the ready state ("On" is displayed), press either scroll key until the "CAL" message appears.
7. Hold the flat tip of the handpiece flush against the front panel Radiometer Target.
8. Press the footswitch and hold it down. Notice that light output will change color towards the end of the procedure. The lamp will automatically turn off and the digital readout will display the word "On".
9. When the word "On" is displayed, calibration is complete.

Verify On Demand

Verify On Demand is used to check the power output of the light on a regular basis. It is recommended that you **verify light output at least once per day, and before every bleaching procedure**.

To perform a verification (Verify On Demand):

1. Clean Liquid Light Guide and Handpiece. Do NOT use steri-shield sheaths when performing the verification.
2. Put on safety goggles.
3. Turn the unit ON.
4. Verify on Demand can be used in any mode *except* Ramp.
5. From the ready state ("On" is displayed), depress the footswitch to activate the lamp and wait five seconds.
6. After the lamp has been on for five seconds or more, move the tip of handpiece flush onto the calibration target and read the output shown on the digital display.
7. The following values are nominal values. The values listed in parenthesis ( ) are acceptable minimum values for those modes of operation:

Kure Modes:	**Nominal value (minimum values)**
Ramp Kure	*Verify Not Available*
Normal Kure	1.00 Watts/cm^2 (0.80 Watts/cm^2 or greater)
Boost Kure	1.20 Watts/ cm^2 (1.00 Watts/cm^2 or greater)

Bleach Modes:	**Nominal value (minimum values)**
Comfort Bleach *Comfort Bleach is noted as "Ramp Bleach" on the unit.*	1.00 Watts/cm^2
Normal Bleach	1.20 Watts/cm^2 (1.00 Watts/cm^2 or greater)
Boost Bleach	1.40 Watts/cm^2 (1.20 Watts/cm^2 or greater)

Changing the Lamp

WARNING: If the lamp or reflector breaks, the glass pieces are very sharp. Handle with extreme care.

CAUTION: When handling the lamp do **not** touch the inside of the reflector or the burner. Only touch the outside of the reflector.

Kreativ has developed the Light Source (lamp) to optimize light output and minimize infrared energy delivered to the patient. Substitution of any lamp other than those supplied by Kreativ will limit effectiveness, may damage the system, and possibly deliver inappropriate energy levels to the patient. In addition, the use of any lamp other than those supplied by Kreativ will void any warranty.

To remove the old lamp:

1. Allow the cooling fan to run for at least three minutes before continuing.
2. Turn the unit off and unplug it.
3. Pull off the control panel as shown in original user's manual.
4. Turn the two thumbscrews holding the lamp door counterclockwise to free the lamp door. Remove the lamp door.

NOTE: The lamp may be hot!

5. Using the tip of one finger, pull back and up on the edge of the lamp reflector. The lamp will be unseated and released by the two retaining fingers.

6. Pull the lamp and its connector out of the unit.
7. Unplug the lamp from the electrical connector.

To install the new lamp:

CAUTION: When handling the lamp do **not** touch the inside of the reflector or the burner. Only touch the outside of the reflector.

1. Plug the lamp into the electrical connector, ensuring a firm fit. *Be careful not to touch the inside of the reflector or the bulb portion of the lamp (burner).*
2. Find the tab on the edge of the reflector. This indicates the top of the bulb.
3. Slide the bulb down between the retaining fingers and the lamp mount, being sure that the tab on the reflector remains positioned at the top.
4. The bulb will fit flat into the circular seat when installed properly.
5. Replace the lamp door and retain with the thumbscrews (turn clockwise to tighten).
6. Replace control panel.

Plug the unit in and perform a Lamp Calibration Procedure (page 2-2), then a Verify on Demand Procedure (page 2-3) of this addendum to verify light output.